

Notice of Allowability

Application No.

09/854,619

Examiner

DEBBIE M. LE

Applicant(s)

NYKANEN, PETRI

Art Unit

2168

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 5/10/06.
2. ☒ The allowed claim(s) is/are 15-31.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>8/1/06</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date ____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other ____. |

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. John Hoel (Reg. No. 26,279) on August 1, 2006.

The application has been amended as follows:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Canceled)

Claim 2. (Canceled)

Claim 3. (Canceled)

Claim 4 (Canceled)

Claim 5 (Canceled)

Claim 6 (Canceled)

Claim 7 (Canceled)

Claim 8 (Canceled)

Claim 9 (Canceled)

Claim 10 (Canceled)

Claim 11 (Canceled)

Claim 12 (Canceled)

Claim 13 (Canceled)

Claim 14 (Canceled)

Claim 15 (Currently Amended): A method to enable a wireless device to discover Internet businesses or services by accessing the Universal Description, Discovery and Integration (UDDI) registry, comprising:

entering a search handle in a wireless device that will be associated with the user's search strategy;

entering query terms in the wireless device as at least part of a business name;

transmitting the search handle and query terms to a knowledge engine server;

sending with the knowledge engine server a *find_business* XML inquiry to the UDDI registry; and

receiving back at the knowledge engine server from the UDDI registry, a *businessList* message that contains a list of business names satisfying the *find_business query inquiry*;

selecting an item from the returned message for a drill-down query to the UDDI registry;

using the item from the returned message as data for a UDDI registry search strategy stored with the query terms in a user profile at the knowledge engine server; and

providing a shortcut for queries to the UDDI registry using the UDDI registry search strategy stored in the user profile, in response to the user's entry of the query terms to the wireless device.

Claim 16 (Original): The method of claim 15, which further comprises:

selecting an item from the returned *businessList* message;
drilling down in the selected business' entity data;
sending with the knowledge engine server a *find_service* XML inquiry to the UDDI registry;
receiving back at the knowledge engine server from the UDDI registry, a *serviceList* message that contains a list of names of services offered by the selected business.

Claim 17 (Original): The method of claim 16, which further comprises:
selecting an item from the returned *serviceList* message;
drilling down in the selected service data;
sending with the knowledge engine server a *_get_serviceDetail_* XML inquiry to the UDDI registry;
receiving back at the knowledge engine server from the UDDI registry, a *serviceDetail* message that includes *bindingTemplate* data that contains the details of the selected service.

Claim 18 (Original): The method of claim 17, which further comprises:
including in the *bindingTemplate* data an *accessPoint URL*, which is the URL of the selected service on the web site of the selected business.

Claim 19 (Original): The method of claim 18, which further comprises:

displaying the accessPoint URL to the user.

Claim 20 (Original): The method of claim 18, which further comprises:
storing with the knowledge engine server the search handle in a user profile with
the selected accessPoint URL;
providing the user with a shortcut for accessing pages from web sites, in
response to the user's entry of abbreviated search handle to the wireless device.

Claim 21 (Original): The method of claim 18, which further comprises:
storing with the knowledge engine server the search handle in a user profile with
a UDDI registry search strategy;
providing the user with a shortcut for online or offline queries to the UDDI
registry, in response to the user's entry of abbreviated search handle to the wireless
device.

Claim 22 (Original): The method of claim 21, which further comprises:
said search strategy including the business name query , the selected
businessEntity data, the selected *businessService* data, the selected *bindingTemplate*
data, and the selected *accessPoint* URL.

Claim 23 (Original): The method of claim 21, which further comprises:

replaying a UDDI registry search strategy by entering a search handle into the wireless device;

transmitting the search handle to the knowledge engine server;

automatically accessing with the knowledge engine server the UDDI registry search strategy from user profile corresponding to the search handle;

loading with the knowledge engine server query values from said UDDI registry search strategy as each respective operand that would have been otherwise entered by the user.

Claim 24 (Original): The method of claim 23, which further comprises:

said query values including the business name query , the selected *businessEntity* data, the selected *businessService* data, and the selected *bindingTemplate* data.

Claim 25 (Previously Presented): A method to enable a wireless device to discover Internet businesses or services by accessing the Universal Description, Discovery and Integration (UDDI) registry, comprising:

entering a search handle in a wireless device that will be associated with the user's search strategy;

entering query terms in the wireless device as at least part of a business name;

transmitting the search handle and query terms to a knowledge engine server;

forming at the knowledge engine server a first query to the UDDI registry for the wireless device user;

receiving at the knowledge engine server a returned message from the UDDI registry in response to the first query;

selecting an item from the returned message for a drill-down query to the UDDI registry;

using the item from the returned message as data for a UDDI registry search strategy stored with the first query in a user profile at the knowledge engine server;

providing a shortcut for queries to the UDDI registry using the UDDI registry search strategy stored in the user profile, in response to the user's entry of the first query to the wireless device;

searching web sites using URLs contained in stored binding templates using said shortcut for queries;

retrieving documents resulting from the search of the web sites; and

applying a filter prescribed by the user and stored in the user's profile, to limit the returned documents to only those of particular interest to the user.

Claim 26 (Original): The method of claim 25, which further comprises:

sorting the documents in a list having an order established in accordance with user's profile.

Claim 27 (Original): The method of claim 26, which further comprises:

storing the filtered documents and the sorted list in a cache for later, selective accessing by the user.

Claim 28 (Original): The method of claim 27, which further comprises:
receiving the user's selections from the list and updating the user's profile with the user's preferences.

Claim 29 (Original): The method of claim 28, which further comprises:
associating the search handle with user's selections and with the user's search strategy;
storing that association in user's profile.

Claim 30 (Original): The method of claim 29, which further comprises:
providing the user with a shortcut for accessing pages from web sites, in response to the user's entry of abbreviated search handle to the wireless device.

Claim 31 (Currently Amended): A system to enable a wireless device to discover Internet businesses or services by accessing the Universal Description, Discovery and Integration (UDDI) registry, comprising:

a processor;

a memory coupled to the processor, programmed to perform the steps of:

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entering a search handle in a wireless device that will be associated with the user's search strategy;

entering query terms in the wireless device as at least part of a business name;

transmitting the search handle and query terms to a knowledge engine server;

sending with the knowledge engine server a *find_business* XML inquiry to the UDDI registry; and

receiving back at the knowledge engine server from the UDDI registry a *businessList* message that contains a list of business names satisfying the *find_business* ~~query~~ inquiry;

selecting an item from the returned message for a drill-down query to the UDDI registry;

using the item from the returned message as data for a UDDI registry search strategy stored with the query terms in a user profile at the knowledge engine server; and

providing a shortcut for queries to the UDDI registry using the UDDI registry search strategy stored in the user profile, in response to the user's entry of the query terms to the wireless device.

Claim 32 (Canceled)

Claim 33 (Canceled)

Claim 34 (Canceled)

Claim 35 (Canceled)

Claim 36 (Canceled)

Claim 37 (Canceled)

Claim 38 (Canceled)

Claim 39 (Canceled)

Claim 40 (Canceled)

Claim 41 (Canceled)

Claim 42 (Canceled)

Claim 43 (Canceled)

Claim 44 (Canceled)

Claim 45 (Canceled)

Claim 46 (Canceled)

Claim 47 (Canceled)

Claim 48 (Canceled)

Claim 49 (Canceled)

Claim 50 (Canceled)

Claim 51 (Canceled)

Claim 52 (Canceled)

Claim 53 (Canceled)

Claim 54 (Canceled)

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

Claims 15-31 are allowable over the prior art of record because the prior art of record fails to teach or fairly suggest a wireless device stores a search handle in user profile with the UDDI registry search strategy, compiling the search strategy that is stored in the user profile in association with the user's abbreviated search handle. The user's abbreviate is used as queries to the UDDI registry using the UDDI registry search strategy stored in the user profile, in response to the user's entry of the query terms to the wireless device.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DEBBIE M. LE whose telephone number is (571) 272-4111. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim Vo can be reached on (571) 272-3642. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

A handwritten signature in black ink, appearing to read 'DL', with a horizontal line underneath.

DEBBIE LE
PRIMARY EXAMINER